JYOTI SINGH

Computer Science & Engineering

United College of Engineering and Research

1900100100073,FEMALE UG Final Year , B.Tech

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Examination	Institute	Year	CPI / %
Graduation	UNITED COLLEGE OF ENGINEERING AND RESEARCH	2023	70(till 6 th sem)
Intermediate/+2	MPVM GANGA GURUKULAM	2018	86.40
Matriculation	MPVM GANGA GURUKULAM	2016	93.20

KEY PROJECTS

3D TIC TAC TOE Summer 2021

- •Applied principles of **object oriented programming** by using **classes to encapsulate and abstract the board**. This allowed us to change the internal representation of the board, without changing rest of the code. The size and the difficulty were also abstracted.
- •Used higher ordered functions to implement a function that tells whether the current state is a win.
- •Implemented Minimax algorithm as the AI agent in the game.

N-QUEENS VISUALISER Summer 2022

- •Learnt fundamental **concept of recursive** calling to fill a queen in safe place. This helped us to monitor and check the position of Queen
- •Implemented **code optimisation** to by acknowledging the movement of queen, rotation of chessboard and other variations for distinct solutions
- •Solved an artificial intelligence problem by dividing it into sub problems, also designed the game board.

BINARY TREE VISUALISER Spring 2022

- •Implemented programming concept of binary tree, max heap using HTML, CSS and JavaScript.
- •Conceptualised **hierarchal data structure**, with the help of array representation •Applied algorithms and programming knowledge for constructing in well-defined way.

OTHER PROJECTS

SUDOKU SOLVER Summer 2020

- Applied the concepts of backtracking algorithm, by analysing various permutations
- •Solved by using function oriented approach alongwith recursive calls to reach a valid matrix solution.

SHORTEST PATH FINDER Summer 2021

- •Implemented using Dijkstra's algorithm, learnt backend working
- •Learnt code optimisation and approach for problem solving, applied graph theory to reach from source to destination

WEB DEVELOPMENT Summer 2022

- •Optimized the layout of the TinDog website to ensure useability on small screens,made **responsive** websites like MusicOnline,applied **layout designing** using containers and relative positioning,made my Portfolio website
- •Implemented a **simplified** version **backtracking** programming. Learnt **frameworks** like bootstrap, react.js for making it dynamically efficient and made projects like contact manager

ACADEMIC ACHIEVEMENTS

- Android With Core Java: Prutor IITK Technology licensed after submitting final internship project.
- Web Development Bootcamp: Udemy certified after completing the 90%lectures.
- Ethical Hacking: Scored 100% in Internshala Summer Training
- Computer System Security: **E & ICT Academy**, IIT Kanpur certified.

TECHNICAL SKILLS

Programming Languages C, C++,Python, SQL, Core Java.

Web Development HTML, CSS, JavaScript, php, jQuery, Reactjs, Nodejs, Firebase

Software Skill MATLAB, Eclipse, Codeblocks, Intellij IDEA Java IDE, Android Studio, MS-Office,

Webflow, Wordpress, Firebase, AWS.

KEY COURSES

•Design and Analysis of Algorithms

•Software Engineering

Web Technology

Discrete Mathematics

• Computer Architecture

•Embedded System

Compiler DesignObject Oriented Programming

•Computer Networks

Artificial Intelligence

Operating Systems

Calculus

•Data Structures and Algorithms

Database Management System

Digital Logic Design

• Theory of computer Automation

Image Processing

•Linear Algebra

EXTRACURRICULARS

- •Under National Cadet Corps Welfare scheme: taught underprivileged kids; recorded Hindi news audio books, as part of Voice for Purpose.
- •Wrote a few answers on Quora, started personal blogging site; improved content writing.
- Participated in Volleyball, Tug of war, and secured gold medal, during inter-college competition.